UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/598,014	05/05/2009	Stefan Xalter	22942-0035US1 / ZS 6345PC	9263
	7590 11/16/201 ARDSON P.C. (BO)	0	EXAMINER	
P.O. BOX 1022	2		THOMPSON, TIMOTHY J	
MINNEAPOLI	S, MN 55440-1022		ART UNIT	PAPER NUMBER
			2873	
			NOTIFICATION DATE	DELIVERY MODE
			11/16/2010	ELECTRONIC

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

PATDOCTC@fr.com

	Application No.	Applicant(s)				
Office Action Occurrence	10/598,014	XALTER ET AL.				
Office Action Summary	Examiner	Art Unit				
	Timothy J. Thompson	2873				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence addi	ress			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be timil apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	<b>J.</b> nely filed  the mailing date of this com  D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
3) Since this application is in condition for allowan						
closed in accordance with the practice under E.	x parte Quayle, 1935 C.D. 11, 45	i3 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>15-28</u> is/are pending in the application	1.					
4a) Of the above claim(s) is/are withdraw						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>15-28</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner						
10)⊠ The drawing(s) filed on <u>16 August 2006</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form PTC	)-152.			
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
1.⊠ Certified copies of the priority documents	have been received.					
2. Certified copies of the priority documents		on No				
3. Copies of the certified copies of the priori			tage			
application from the International Bureau			<b>O</b>			
* See the attached detailed Office action for a list of	of the certified copies not receive	d.				
Attachment/c)						
Attachment(s)  1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	nte				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 07/10; 08/06.	5)  Notice of Informal P 6) Other:	atent Application				
ι αρεί τιο( <i>δ)</i> πνιαπ ματε <u>στη το, σούσο</u> .	رد العالم (مارد).					

#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 16-27 are rejected since they depend form a canceled claims.

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 15, 24, 25, 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Spinali(U.S. Pat. No. 6,449,106) in view of Lehman et al.(U.S. Pat. No. 6,095,697).

Note; to speed up prosecution the examiner is assuming that claims 24-26 depend from claim 15.

Regarding claim 15, 28 Spinali discloses housing structure(fig 1A) which has a frame (fig 1A, 132) on which there are arranged via connecting elements several optical elements which are held in mounts or structural modules(fig 1A, 102), wherein the optical elements are detachably connected to the frame structure(col 7, lines 23-30) with their mounts or structural modules and connecting elements(col 7, lines 48-67, which states such as screws means any commonly used fastening means can be

Page 3

used), wherein the frame structure and the mounts or structural modules with their connecting elements have at least approximately the same coefficient of thermal expansion(col 4, line 60 to col 5, line 10; col 6, lines 30-40 it states that both the lens barrel and the support can be made from the same materials). Additionally, Lehman et al. discloses a detachable fastening means for an optical device can be a ball and socket(fig 2a, 22, 24). It would have been obvious to use the ball and socket method for attaching the mount to the frame as shown by Lehman et al., with the optical device of Spinali, since as shown by Lehman et al. a ball and socket fastening method is commonly used for fastening an optical device to a frame and thus in the installed state the optical elements are integrated as bearing units in the frame structure.

Regarding claim 24, Spinali discloses using Zerodur(col 6, table 1).

Regarding claim 25 Spinali discloses the objective housing for a projective objective in microliography(col 1, lines 5-15).

Claim 26 is rejected under 35 U.S.C. 103(a) as being unpatentable over Spinali(U.S. Pat. No. 6,449,106) in view of Lehman et al.(U.S. Pat. No. 6,095,697) as detailed in claim rejection 15 abpove and further in view of Hudyma et al.(U.S. Pat. No. 7,735,798).

Regarding claim 26 Spinali does not disclose the objective housing id provided for EUV lithography. However, Hudyma et al. discloses a lithography system is a EUV system stating this allows for scaling to a larger numerical aperture(col 11, lines 64-67).

Art Unit: 2873

It would have been obvious to one skilled in the art at the time of the invention to form a lithography system as disclosed above to be an EUV lithography system as shown by Hudyma et al., with the lithography system of Spinali, since as shown by Hudyma et al. an EUV lithography system is commonly used since this allows for forming a circuit that allows for scaling to a larger numerical aperture.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy J. Thompson whose telephone number is (571) 272-2342. The examiner can normally be reached on 8:30 AM - 6:00 Pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mack Ricky can be reached on (571) 272-2333. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Application/Control Number: 10/598,014

Page 5

Art Unit: 2873

/Timothy J Thompson/ Examiner, Art Unit 2873